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☐ 1. Document ID: US 6476830 B1

L1: Entry 1 of 10

File: USPT

Nov 5, 2002

US-PAT-NO: 6476830

DOCUMENT-IDENTIFIER: US 6476830 B1

TITLE: Virtual objects for building a community in a virtual world

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 2. Document ID: US 6443840 B1

L1: Entry 2 of 10

File: USPT

Sep 3, 2002

US-PAT-NO: 6443840

DOCUMENT-IDENTIFIER: US 6443840 B1

TITLE: Evaluation of responses of participatory broadcast audience with prediction of winning contestants; monitoring, checking and controlling of wagering, and automatic crediting and couponing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 3. Document ID: US 6438217 B1

L1: Entry 3 of 10

File: USPT

Aug 20, 2002

US-PAT-NO: 6438217

DOCUMENT-IDENTIFIER: US 6438217 B1

TITLE: Apparatus and method for future transmission of device-independent messages

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 4. Document ID: US 6366893 B2

L1: Entry 4 of 10

File: USPT

Apr 2, 2002

US-PAT-NO: 6366893

DOCUMENT-IDENTIFIER: US 6366893 B2

TITLE: System, a method and an apparatus for performing an electric payment transaction in a telecommunication network

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 5. Document ID: US 6295518 B1

L1: Entry 5 of 10

File: USPT

Sep 25, 2001

US-PAT-NO: 6295518

DOCUMENT-IDENTIFIER: US 6295518 B1

TITLE: System and method for emulating telecommunications network devices

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 6. Document ID: US 6250557 B1

L1: Entry 6 of 10

File: USPT

Jun 26, 2001

US-PAT-NO: 6250557

DOCUMENT-IDENTIFIER: US 6250557 B1

TITLE: Methods and arrangements for a smart card wallet and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 7. Document ID: US 6229533 B1

L1: Entry 7 of 10

File: USPT

May 8, 2001

US-PAT-NO: 6229533

DOCUMENT-IDENTIFIER: US 6229533 B1

TITLE: Ghost object for a virtual world

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 8. Document ID: US 6052591 A

L1: Entry 8 of 10

File: USPT

Apr 18, 2000

US-PAT-NO: 6052591

DOCUMENT-IDENTIFIER: US 6052591 A

**** See image for Certificate of Correction ****

TITLE: Broadcasting messages to mobile stations within a geographic area

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 9. Document ID: US 5933816 A

L1: Entry 9 of 10

File: USPT

Aug 3, 1999

US-PAT-NO: 5933816

DOCUMENT-IDENTIFIER: US 5933816 A

**** See image for Certificate of Correction ****

TITLE: System and method for delivering financial services

Full	Title	Station	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGURE	Draw. Des
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☐ 10. Document ID: US 5602743 A

L1: Entry 10 of 10

File: USPT

Feb 11, 1997

US-PAT-NO: 5602743

DOCUMENT-IDENTIFIER: US 5602743 A

TITLE: Method for data input into a postage meter machine, arrangement for franking postal matter and for producing a franking design respectively allocated to a cost center

Full	Title	Station	Front	Review	Classification	Date	Reference	Abstract	Claims	FIGURE	Draw. Des
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Terms	Documents
6366893.pn. or 6476830.pn. or 6438217.pn. or 6250557.pn. or 6229533.pn. or 6443840.pn. or 5933816.pn. or 6052591.pn. or 6295518.pn. or 5602743.pn.	10

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L1: Entry 1 of 10

File: USPT

Nov 5, 2002

US-PAT-NO: 6476830

DOCUMENT-IDENTIFIER: US 6476830 B1

TITLE: Virtual objects for building a community in a virtual world

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farmer; Randy	Cupertino	CA		
Morningstar; Chris	Cupertino	CA		
Onusko; John E.	San Francisco	CA		
Morse; Norman	Oakland	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fujitsu Software Corporation	Santa Clara	CA			02

APPL-NO: 08/ 699698 [PALM]

DATE FILED: August 2, 1996

INT-CL: [07] G06 F 3/00

US-CL-ISSUED: 345/769; 345/706, 345/751, 345/753, 345/758, 345/759, 345/977, 705/26

US-CL-CURRENT: 715/769; 705/26, 715/706, 715/751, 715/753, 715/758, 715/759, 715/977

FIELD-OF-SEARCH: 345/330-332, 345/335, 345/339, 345/348-349, 345/355, 345/962, 345/976-977, 345/706, 345/744, 345/751, 345/753, 345/757, 345/758, 345/759, 345/763, 395/200.34, 395/200.65, 705/26, 705/39, 705/41, 705/43-44, 709/204, 709/205

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5347306</u>	September 1994	Nitta	345/330 X
<input type="checkbox"/>	<u>5491743</u>	February 1996	Shiio et al.	395/200.34
<input type="checkbox"/>	<u>5649118</u>	July 1997	Carlisle et al.	705/41

<input type="checkbox"/>	<u>5687323</u>	November 1997	Hodroff	705/39 X
<input type="checkbox"/>	<u>5729594</u>	March 1998	Klingman	705/26 X
<input type="checkbox"/>	<u>5732232</u>	March 1998	Brush, II et al.	345/339
<input type="checkbox"/>	<u>5838316</u>	November 1998	Arruza	345/339 X
<input type="checkbox"/>	<u>5852812</u>	December 1998	Reeder	705/39
<input type="checkbox"/>	<u>5880731</u>	March 1999	Liles et al.	345/349
<input type="checkbox"/>	<u>5918213</u>	June 1999	Bernard et al.	705/26
<input type="checkbox"/>	<u>5956038</u>	September 1999	Rekimoto	345/419

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Bill Machrone, "MUDs and MUSHes and MOOs", PC Magazine, v14, n10, p83(1), May 1995.*

"Microsoft Network Adds Multimedia Chat Service.", Newsbytes, pNEW11300033, Nov. 1995.*

Jerry michalski, "Community, Part II.", RElease 1.0, v93, n7, p1(8), Jul. 1993.*

Susan Borden, "Virtually sociable." Computer Shopper, v16, n7, p572(3), Jul. 1996.*

Fukuda, K., et al., "Hypermedia Personal Computer Communication System: Fujitsu Habitat", Fujitsu Sci. Tech. J., 26, 3, pp. 197-205 (Oct. 1990).

Morabito, M., "Enter the On-Line World of Lucasfilm", RUN, pp. 24-28 (Aug. 1986).

Club Caribe Guidebook, Club Caribe Technology by Lucasfilm Ltd., 1989 Quantum Computer Services, Inc., 1989 Lucasfilm Ltd., 10 pp. (1989).

Fujitsu Habitat V2.1, Fujitsu Limited, 6 pp. (1989-1992) No Translation Provided.

ART-UNIT: 2173

PRIMARY-EXAMINER: Cabeca; John

ASSISTANT-EXAMINER: Bautista; X. L.

ATTY-AGENT-FIRM: Skjerven Morrill LLP Klivans; Norman R.

ABSTRACT:

A virtual world computer process includes portable virtual token objects that can be used by on-line users of the virtual world to facilitate exchange of goods and services within the virtual world. In particular, client-server computer processes are provided for the virtual world that allow on-line users to conduct activities within the virtual world including getting, putting, giving, and receiving portable virtual token objects as well as other portable virtual objects. Each on-line user is represented in the graphic user interface by a virtual avatar object. Token objects are put into circulation by virtual ATM objects. A virtual ATM object allows a user to obtain a balance, deposit tokens, and withdraw tokens. A vendroid object is an object that sells portable virtual items in exchange for tokens deposited by avatars. Different virtual items have different values, and vendroids do not all have the same virtual items for sale. In the virtual world, a lurker is represented in a locale by a ghost object. An icon is present, i.e., an eye-the-sky, in a locale, whenever a ghost object, or ghost objects are present. Ghost objects have anonymity, i.e. their names are not known to avatars of the locale, and have limited interaction choices. A ghost object cannot talk or think to other avatars. A ghost object retains the ability to transmit private "ESP" messages to other

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L1: Entry 2 of 10

File: USPT

Sep 3, 2002

US-PAT-NO: 6443840

DOCUMENT-IDENTIFIER: US 6443840 B1

TITLE: Evaluation of responses of participatory broadcast audience with prediction of winning contestants; monitoring, checking and controlling of wagering, and automatic crediting and couponing

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Von Kohorn; Henry	Vero Beach	FL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Response Reward Systems, L.C.	Vero Beach	FL			02

APPL-NO: 09/ 088148 [PALM]

DATE FILED: June 1, 1998

PARENT-CASE:

BACKGROUND OF THE INVENTION This application is a continuation-in-part of application Ser. No. 08/226,073 filed Apr. 11, 1994 now U.S. Pat. No. 5,759,101 which is a continuation-in-part of application Ser. No. 08/025,397 filed Feb. 25, 1993, now U.S. Pat. No. 5,508,731, which is a continuation in part of application Ser. No. 07/763,672 filed Sep. 19, 1991, now U.S. Pat. No. 5,283,734, which is a continuation in part of application Ser. No. 07/603,882 filed Oct. 25, 1990, now U.S. Pat. No. 5,057,915, which is a continuation-in-part of application Ser. No. 07/424,089 filed Oct. 19, 1989, now U.S. Pat. No. 5,034,807, which is a continuation-in-part of application Ser. No. 07/192,355, filed May 10, 1988, now U.S. Pat. No. 4,926,255, which is continuation-in-part of application Ser. No. 06/837,827 filed Mar. 10, 1986, now U.S. Pat. No. 4,745,468. Related material is found in U.S. Pat. No. 4,876,592 which is also a continuation-in-part of said application Ser. No. 837,827.

INT-CL: [07] A63 B 71/00, G06 F 17/60, A63 F 9/24

US-CL-ISSUED: 463/17; 463/40, 463/25

US-CL-CURRENT: 463/17; 463/25, 463/40

FIELD-OF-SEARCH: 463/17, 463/16, 463/20, 463/40, 463/41, 463/42, 463/25, 903/23, 273/138.2

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>3909002</u>	September 1975	Levy	463/42
<input type="checkbox"/>	<u>4322612</u>	March 1982	Lange	463/28
<input type="checkbox"/>	<u>4467424</u>	August 1984	Hedges et al.	463/40
<input type="checkbox"/>	<u>4494197</u>	January 1985	Troy et al.	463/42
<input type="checkbox"/>	<u>4592546</u>	June 1986	Fascenda et al.	463/40
<input type="checkbox"/>	<u>4764666</u>	August 1988	Bergeron	463/17
<input type="checkbox"/>	<u>4815741</u>	March 1989	Small	463/41
<input type="checkbox"/>	<u>4909516</u>	March 1990	Kolinsky	463/40
<input type="checkbox"/>	<u>4996705</u>	February 1991	Entenmann et al.	463/41
<input type="checkbox"/>	<u>5119295</u>	June 1992	Kapur	463/41
<input type="checkbox"/>	<u>5761647</u>	June 1998	Boushy	463/25
<input type="checkbox"/>	<u>6110041</u>	August 2000	Walker et al.	463/20

ART-UNIT: 3714

PRIMARY-EXAMINER: Harrison; Jessica

ATTY-AGENT-FIRM: Perman & Green, LLP

ABSTRACT:

A system and method for evaluating responses to broadcast programs, such as television programs, include an instructional signal modulated onto a signal transmitted concurrently with the television program, simulcast, or time-multiplexed with a television. At each of a plurality of remote receiving stations, one or more members of a remote audience has the opportunity to respond to a situation presented in the television program by entering a response on a keyboard. The system includes response evaluation circuitry which may be located at a central facility or partially at the central facility and partially at each remote receiving station, or completely within a response unit at each remote receiving station, in the latter case the response unit having a memory responsive to the instructional signal for storing acceptable responses, a comparison circuit for comparing responses entered at the keyboard with those stored in the memory, circuitry for scoring responses in accordance with commands from the instructional signal, and a recording device for providing a permanent record of the audience score at the remote station. For conducting a sweepstakes, numbers or other responses are entered at the remote stations and are stored at a central facility for verification. The program may be presented live conducted by a host at a central station, or by a prerecorded message accessible by telephone from a remote station with regulation from a central station, and members of the remote audience may predict or select winning contestants.

6 Claims, 54 Drawing figures

L1: Entry 3 of 10

File: USPT

Aug 20, 2002

US-PAT-NO: 6438217

DOCUMENT-IDENTIFIER: US 6438217 B1

TITLE: Apparatus and method for future transmission of device-independent messages

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Huna; Emmanuel L.	Daly City	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA			02

APPL-NO: 09/ 268524 [PALM]

DATE FILED: March 11, 1999

PARENT-CASE:

This application is related to the following co-pending U.S. Patent Applications which are hereby incorporated by reference: Application No. Filing Date Title
09/239,560 1/29/99 Integrated Message Storage And Retrieval System Distributed Over A Large Geographical Area
09/240,367 1/29/99 A System And Method For Providing Unified Messaging To A User With A Thin Web Browser
09/239,585 1/29/99 Centralized Communication Control Center For Visually And Audibly Updating Communication Options Associated With Communication Services Of A Unified Messaging System And Methods Therefor
09/239,584 1/29/99 Computer-Implemented Call Forwarding Options And Methods Therefor In A Unified Messaging System
09/240,893 1/29/99 Interactive Billing System Utilizing A Thin Web Client Interface
09/240,368 1/29/99 System And Method To Manage Phone Sourced Messages Using A User Modifiable Field Associated With The Message
09/240,434 1/29/99 Method And Apparatus For Network Independent Initiation Of Telephony
09/240,435 1/29/99 Apparatus And Method For Device Independent Messaging Notification
09/240,436 1/29/99 Apparatus And Method For Channel- Transparent Multimedia Broadcast Messaging
09/239,589 1/29/99 Voice Access Through A Data- Centric Network To An Integrated Message Storage And Retrieval System

INT-CL: [07] H04 M 1/64

US-CL-ISSUED: 379/88.14; 379/88.23

US-CL-CURRENT: 379/88.14; 379/88.23

FIELD-OF-SEARCH: 379/67.1, 379/88.11, 379/88.12, 379/88.13, 379/88.14, 379/88.17, 379/88.18, 379/88.22, 379/88.23, 379/90.01, 379/93.01, 379/93.15, 709/217, 709/218, 709/219

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<input type="checkbox"/> <u>5675507</u>	October 1997	Bobo, II	364/514
<input type="checkbox"/> <u>5742905</u>	April 1998	Pepe et al.	
<input type="checkbox"/> <u>5870454</u>	February 1999	Dahlen	379/88.14
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<input type="checkbox"/> <u>5987100</u>	November 1999	Fortman et al.	379/88.14
<input type="checkbox"/> <u>6055240</u>	April 2000	Tunnickliffe	370/428
<input type="checkbox"/> <u>6134454</u>	October 2000	Foladare et al.	455/556
<input type="checkbox"/> <u>6157924</u>	December 2000	Austin	707/10
<input type="checkbox"/> <u>6181781</u>	January 2001	Porter et al.	379/88.17
<input type="checkbox"/> <u>6203192</u>	March 2001	Fortman	379/88.14
<input type="checkbox"/> <u>6233318</u>	May 2001	Picard et al.	379/88.17

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0854655	July 1998	EP	

ART-UNIT: 2645

PRIMARY-EXAMINER: Weaver; Scott L.

ATTY-AGENT-FIRM: Senniger, Powers, Leavitt & Roedel

ABSTRACT:

An apparatus and method are provided for entering and transmitting a message at a future delivery time to a receiving device that is coupled either to a telephony-centric network or to a data-centric network. The apparatus includes a message server, a data-centric network server, and a telephony-centric network server. The message server translates the message into a format compatible with the receiving device and initiates delivery of the message at the future delivery time. The data-centric network server transmits the message over the data-centric network and, if the receiving device is addressable over the data-centric network, then said data-centric network server delivers the message directly to the receiving device. The

telephony-centric network server provides an interface between the data-centric network server and the telephony-centric network. If the receiving device is addressable by the telephony-centric network, then the telephony-centric network server receives the message from said data-centric network server and delivers the message to the receiving device over the telephony-centric network.

59 Claims, 8 Drawing figures

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L1: Entry 4 of 10

File: USPT

Apr 2, 2002

US-PAT-NO: 6366893

DOCUMENT-IDENTIFIER: US 6366893 B2

TITLE: System, a method and an apparatus for performing an electric payment transaction in a telecommunication network

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hannula; Antti	Espoo			FI
Kari; Hannu	Veikkola			FI

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Nokia Telecommunications Oy	Espoo			FI	03

APPL-NO: 09/ 068280 [PALM]

DATE FILED: September 29, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
FI	955354	November 7, 1995

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/FI96/00597	November 5, 1996	WO97/17678	May 15, 1997	Sep 29, 1998	Sep 29, 1998

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/40; 705/26, 705/39, 705/53, 705/78, 705/79, 705/41, 455/407, 379/93.12

US-CL-CURRENT: 705/40; 379/93.12, 455/407, 705/26, 705/39, 705/41, 705/53, 705/78, 705/79.

FIELD-OF-SEARCH: 705/40, 705/26, 705/35, 705/39, 705/42, 705/53, 705/77, 705/78, 705/79, 705/73, 705/37, 705/41, 705/65, 705/70, 902/24, 902/40, 235/380, 455/407, 455/558, 455/406, 379/93.12

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4961142</u>	October 1990	Elliott et al.	705/73
<input type="checkbox"/> <u>4972463</u>	November 1990	Danielson et al.	379/91.01
<input type="checkbox"/> <u>5061916</u>	October 1991	French et al.	340/522
<input type="checkbox"/> <u>5153907</u>	October 1992	Pugh et al.	379/143
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<input type="checkbox"/> <u>6131040</u>	October 2000	Knuutila et al.	455/550
<input type="checkbox"/> <u>6169890</u>	January 2001	Vatanen	455/406

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 565 469	October 1993	EP	
0 658 862	June 1995	EP	
0 666 670	August 1995	EP	
0 705 012	April 1996	EP	
WO 93/22860	November 1993	WO	

WO 94/11849

May 1994

WO

WO 95/08900

March 1995

WO

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Osborne et al, "Bank-VAN Duo High-Steps Over Those EDI Blues", Corporate Cashflow, vol. 11, No. 11, pp 72-76, Oct. 1990.*

"NACHA Council Approves First Cross-Border Payment Rules", Corporate EFT Report, vol. 15, No. 19, Oct. 1995, Dialog File 636:Newsletter DB.*

Mouly and Pautet, "The GSM System for Mobile Communications".*

Copy of the International Search Report.

ART-UNIT: 2161

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Hayes; John W.

ATTY-AGENT-FIRM: Altera Law Group, LLC

ABSTRACT:

The invention relates to methods and apparatuses for performing electronic payment transactions between a terminal equipment (100) in a telecommunication network and the other transacting party (1,2, . . . ,N). The invention utilizes a special payment service gateway (10) through which all the payment transactions of the terminal equipments in the telecommunication network are routed. The payment service gateway allows the parties of the payment transaction to support different electronic payment protocols (A, B, . . . , X) and performs the required protocol conversions so as to provide an end-to-end transaction.

17 Claims, 6 Drawing figures

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L1: Entry 5 of 10

File: USPT

Sep 25, 2001

US-PAT-NO: 6295518

DOCUMENT-IDENTIFIER: US 6295518 B1

TITLE: System and method for emulating telecommunications network devices

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McLain; John V.	Colorado Springs	CO		
Curnell; Damon	Colorado Springs	CO		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
MCI Communications Corporation	Washington	DC			02

APPL-NO: 08/ 987229 [PALM]

DATE FILED: December 9, 1997

PARENT-CASE:

CROSS-REFERENCE TO OTHER APPLICATIONS This patent application is related to the following commonly owned United States Patent Applications: 1. U.S. Patent Application titled, "System and Method for Performing Hybrid Preemptive and Cooperative Multi-Tasking in a Computer System," Ser. No. 08/987,633, by John V. McLain, Jr., and Damon Curnell, filed concurrently herewith; 2. U.S. Patent Application titled, "System and Method for Managing Computer System Resources Using Command Control Vectors," Ser. No. 08/987,849, by John V. McLain, Jr., and Damon Curnell, filed concurrently herewith; 3. U.S. Patent Application titled, "System and Method for Generating Responses to Inputs Using a Hybrid State Engine Table," Ser. No. 08/987,850, U.S. Pat. No. 5,974,532, by John V. McLain, Jr., and Damon Curnell, filed concurrently herewith; 4. U.S. Patent Application titled, "Method and Apparatus for Emulating a Dynamically Configured Digital Cross-Connect Network," Ser. No. 08/641,458, U.S. Pat. No. 5,809,286, by John V. McLain, Jr., and James Dellinger, filed May 1, 1996; 5. U.S. Patent Application titled, "Method and Apparatus for Emulating a Digital Cross-Connect Network," Ser. No. 08/641,459, U.S. Pat. No. 5,748,617, by John V. McLain, Jr., filed May 1, 1996; 6. U.S. Patent Application titled, "Method and Apparatus for Emulating Digital Cross-Connect Network using a Flexible Topology to Test MCS Network Management," by John V. McLain, Jr., filed May 1, 1996; 7. U.S. Patent Application titled, "Method and Apparatus for Emulating a Network of State Monitoring Devices," Ser. No. (08/672,141), U.S. Pat. No. 5,812,826, by John V. McLain, Jr., filed Jun. 27, 1996; 8. U.S. Patent Application titled, "Method and Apparatus for Simulating Multi-Tasking," Ser. No. 08/641,460, U.S. Pat. No. 5,850,536, by John V. McLain, Jr.; 9. U.S. Patent Application titled, "System, Method and Computer Program product for Digital Cross Connect Testing," Ser. No. 08/774,650, U.S. Pat. No. 5,954,829, by John V. McLain, Jr. and Dale W. Harris, filed Dec. 30, 1996; and 10. U.S. Patent Application titled, "Digital Cross Connect Command Script Generator," Ser. No. 08/774,651, U.S. Pat. No. 5,854,930, by John V. McLain, Jr., filed Dec. 31, 1996.

The above-listed applications are incorporated herein by reference in their entireties.

INT-CL: [07] G06 F 9/455

US-CL-ISSUED: 703/23; 703/13, 709/220, 709/223, 709/227, 712/208

US-CL-CURRENT: 703/23; 703/13, 709/220, 709/223, 709/227, 712/208

FIELD-OF-SEARCH: 709/220, 709/223, 709/224, 709/229, 709/230, 703/13, 703/21, 703/23, 703/27, 712/208

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5027343</u>	June 1991	Chan et al.	370/250
<input type="checkbox"/>	<u>5060140</u>	October 1991	Brown et al.	710/105
<input type="checkbox"/>	<u>5406557</u>	April 1995	Baudoin	370/407
<input type="checkbox"/>	<u>5446736</u>	August 1995	Gleeson et al.	370/473
<input type="checkbox"/>	<u>5475683</u>	December 1995	Harrison et al.	370/332
<input type="checkbox"/>	<u>5490134</u>	February 1996	Fernandes et al.	370/466
<input type="checkbox"/>	<u>5491800</u>	February 1996	Goldsmith et al.	709/221
<input type="checkbox"/>	<u>5535198</u>	July 1996	Baker et al.	370/426
<input type="checkbox"/>	<u>5579476</u>	November 1996	Cheng et al.	714/32
<input type="checkbox"/>	<u>5675771</u>	October 1997	Curley et al.	703/23
<input type="checkbox"/>	<u>5732213</u>	March 1998	Gessel et al.	709/224
<input type="checkbox"/>	<u>5774695</u>	June 1998	Autrey et al.	709/227
<input type="checkbox"/>	<u>5805805</u>	September 1998	Civanlar et al.	709/220
<input type="checkbox"/>	<u>5889954</u>	March 1999	Gessel et al.	709/223
<input type="checkbox"/>	<u>5897609</u>	April 1999	Choi et al.	702/122
<input type="checkbox"/>	<u>5974532</u>	October 1999	McLain et al.	712/208
<input type="checkbox"/>	<u>5983012</u>	November 1999	Bianchi et al.	703/23

ART-UNIT: 213

PRIMARY-EXAMINER: Teska; Kevin J.

ASSISTANT-EXAMINER: Broda; Samuel

ABSTRACT:

A system, method and computer program product for emulating a telecommunications network by simultaneously emulating multiple independent activities normally performed by multiple network devices. In a telecommunications network, includes a network interface for communicating with a control system, a user interface for accepting user input and for providing user output, a command response manager for reading control system commands and for formulating intelligent responses, a script interpreter for executing scripts, a script database containing data from actual network devices for use by the scripts, a database manager for performing database functions and a multi-tasking system manager for controlling these logical components and for interacting with an operating system of a host computer to provide for invoking and terminating various processes. The system provides both script and non-script responses to a control system in order to emulate digital matrix switches. Script responses preferably work in conjunction with databases that contain data from actual network devices and data provided by control systems to generate more realistic responses. Preferably, a hybrid preemptive and cooperative multi-tasking controller is employed for processing a number n of logical units of work for a task before interrupting. The system, method and computer program product can be implemented on a standard PC. The present invention emulates the communications protocol of TNDs via the network interface module. Preferably, the network interface module communicates with a control system via an X.25 interface. Preferably, the control system utilizes Message Transfer Protocol (MTP) over an X.25 network. Other communications protocols can be employed as well.

23 Claims, 16 Drawing figures

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L1: Entry 7 of 10

File: USPT

May 8, 2001

US-PAT-NO: 6229533

DOCUMENT-IDENTIFIER: US 6229533 B1

TITLE: Ghost object for a virtual world

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farmer; Randy	Cupertino	CA		
Onusko; John E.	San Francisco	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fujitsu Limited	Kawasaki			JP	03

APPL-NO: 08/ 691793 [\[PALM\]](#)

DATE FILED: August 2, 1996

INT-CL: [07] G06 F 3/00

US-CL-ISSUED: 345/331; 345/330, 345/332, 345/335, 345/349

US-CL-CURRENT: 345/473; 715/769

FIELD-OF-SEARCH: 345/326, 345/330, 345/331, 345/332, 345/334, 345/335, 345/348, 345/349, 345/355, 345/976, 345/977

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5347306</u>	September 1994	Nitta	345/330 X
<input type="checkbox"/>	<u>5491743</u>	February 1996	Shiio et al.	345/322 X
<input type="checkbox"/>	<u>5544320</u>	August 1996	Konrad	395/200.33
<input type="checkbox"/>	<u>5606652</u>	February 1997	Silverbrook	345/435
<input type="checkbox"/>	<u>5684943</u>	November 1997	Abraham et al.	345/473
<input type="checkbox"/>	<u>5717869</u>	February 1998	Moran et al.	345/339
<input type="checkbox"/>	<u>5717879</u>	February 1998	Moran et al.	345/339

<input type="checkbox"/> 5736982	April 1998	Suzuki et al.	345/330
<input checked="" type="checkbox"/> 5880731	March 1999	Liles et al.	345/349
<input type="checkbox"/> 5886697	March 1999	Naughton et al.	345/348

OTHER PUBLICATIONS

"Valentine's Day Wedding In A Virtual World", Newsbytes, p. 1, Feb. 14, 1996.*
 "Picture Perfect Shopping Solution For The Web", BRP Publications, pp. 1-3, Mar. 19, 1996.*
 Harley Guttman Ungar, "Online service chat: it wont't go away", Interactive Content, v2, N24, p8(3), Apr. 1996.*
 Pioch, N., "A Short IRC Primer," Nicolas. Pioch@grasp.insa-lyon.fr (Ed.1.1b, Feb. 28, 1993), 41 pages.
 Rose, H. "What is IRC?," Hrose@kei.com, undated, 6 pages.
 Fukuda, K., et al., "Hypermedia Personal Computer Communication System: Fujitsu Habitat," Fujitsu Sci. Tech. J., 26, 3, pp. 197-205 (Oct. 1990).
 Morabito, M., "Enter the On-Line World of Lucasfilm," RUN, pp. 24-28 (Aug. 1986).
 Club Caribe Guidebook, Club Caribe Technology by Lucasfilm Ltd., 1989 Quantum Computer Services, Inc., 1989 Lucasfilm Ltd., 10 pages (1989).
 Fujitsu Habitat V2.1, Fujitsu Limited, 6 pp. (1989-1992).

ART-UNIT: 273

PRIMARY-EXAMINER: Bayerl; Raymond J.

ASSISTANT-EXAMINER: Bautista; X. L.

ATTY-AGENT-FIRM: Skjervén Morrill MacPherson LLP Kwok; Edward C.

ABSTRACT:

A virtual world computer process includes portable virtual token objects that can be used by on-line users of the virtual world to facilitate exchange of goods and services within the virtual world. In particular, client-server computer processes are provided for the virtual world that allow on-line users to conduct activities within the virtual world including getting, putting, giving, and receiving portable virtual token objects as well as other portable virtual objects. Each on-line user is represented in the graphic user interface by a virtual avatar object. Token objects are put into circulation by virtual ATM objects. A virtual ATM object allows a user to obtain a balance, deposit tokens, and withdraw tokens. A vendroid object is an object that sells portable virtual items in exchange for tokens deposited by avatars. Different virtual items have different values, and vendroids do not all have the same virtual items for sale. In the virtual world, a lurker is represented in a locale by a ghost object. An icon is present, i.e., an eye-in-the-sky, in a locale, whenever a ghost object, or ghost objects are present. Ghost objects have anonymity, i.e. their names are not known to avatars of the locale, and have limited interaction choices. A ghost object cannot talk or think to other avatars. A ghost object retains the ability to transmit private "ESP" messages to other avatars.

19 Claims, 48 Drawing figures

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L1: Entry 8 of 10

File: USPT

Apr 18, 2000

US-PAT-NO: 6052591

DOCUMENT-IDENTIFIER: US 6052591 A

**** See image for Certificate of Correction ****

TITLE: Broadcasting messages to mobile stations within a geographic area

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bhatia; Ranjit	Dallas	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Ericsson Inc.	Research Triangle Park	NC			02

APPL-NO: 08/ 699661 [PALM]

DATE FILED: August 19, 1996

INT-CL: [07] H07 Q 7/00

US-CL-ISSUED: 455/445; 455/15, 340/825.03, 340/825.44, 380/23

US-CL-CURRENT: 455/445; 340/2.1, 340/7.27, 340/7.28, 340/7.45, 340/7.46, 380/247, 455/15

FIELD-OF-SEARCH: 455/445, 455/432, 455/436, 455/439, 340/825.03, 340/825.44, 380/23

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4696051</u>	September 1987	Breeden	455/33
<input type="checkbox"/> <u>4968966</u>	November 1990	Jasinski et al.	340/825.44
<input type="checkbox"/> <u>5128934</u>	July 1992	Jasinski	370/84
<input type="checkbox"/> <u>5131020</u>	July 1992	Liebesny et al.	379/59
<input type="checkbox"/> <u>5159701</u>	October 1992	Barnes et al.	455/15
<input type="checkbox"/> <u>5241305</u>	August 1993	Fascenda	340/825.44
<input type="checkbox"/> <u>5255308</u>	October 1993	Hashimoto et al.	379/61

<input type="checkbox"/>	<u>5260986</u>	November 1993	Pershan	379/57
<input type="checkbox"/>	<u>5369682</u>	November 1994	Witsaman et al.	379/57
<input type="checkbox"/>	<u>5404571</u>	April 1995	Makowski	455/33.1
<input type="checkbox"/>	<u>5450405</u>	September 1995	Maher et al.	370/58.2
<input type="checkbox"/>	<u>5550896</u>	August 1996	Chavez, Jr.	
<input type="checkbox"/>	<u>5557606</u>	September 1996	Moon et al.	370/31
<input type="checkbox"/>	<u>5596315</u>	January 1997	Olds et al.	340/825.03
<input type="checkbox"/>	<u>5615267</u>	March 1997	Lin et al.	380/23
<input type="checkbox"/>	<u>5619552</u>	April 1997	Karppanen et al.	
<input type="checkbox"/>	<u>5724658</u>	March 1998	Hasan	455/445
<input type="checkbox"/>	<u>5742668</u>	April 1998	Pepe et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 94/09599	April 1994	WO	
WO 96/20572	July 1996	WO	

OTHER PUBLICATIONS

Arunkumar, Panwar, "Efficient Broadcast Using Selective Flooding", INFOCOM'92, May 1992.

The Short Message Service--A New Service of Digital Mobile Communication Michael Hientz, et al., United States Patent and Trademark Office Washington, D.C.--May 1995, pp. 1-15.

F. Courau, et al., "Implementation of Broadcast and Personal Message Services in an Experimental Mobile Radio System", XP002019072, CNet, France, Jun. 30, 1997, p. 144-151.

ART-UNIT: 279

PRIMARY-EXAMINER: Cumming; William

ATTY-AGENT-FIRM: Jenkins & Gilchrist, PC

ABSTRACT:

A dialable directory number is assigned to a particular location area or cell area. A telecommunications user wanting to transmit user defined messages, such as a text message, to mobile stations within that location area or cell area transmits a signal encapsulating the message towards the assigned directory number. The transmitted signal is then routed through the conventional telecommunications network and delivered to the MSC providing mobile service to that particular location area or cell area. If the specified directory number is associated with a location area within a Public Land Mobile Network (PLMN), the serving MSC queries the attached visitor location register (VLR) to identify the mobile stations currently located within the specified location area. If the specified directory number is associated with a cell area, the serving MSC communicates with a base station controller (BSC) providing mobile service to that particular cell area. Thereinafter, the received message is transmitted using short message service (SMS)

messages to each of the mobile stations determined to be located within the specified geographic area.

21 Claims, 11 Drawing figures

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L1: Entry 9 of 10

File: USPT

Aug 3, 1999

US-PAT-NO: 5933816

DOCUMENT-IDENTIFIER: US 5933816 A

**** See image for Certificate of Correction ****

TITLE: System and method for delivering financial services

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zeanah; James	Thousand Oaks	CA		
Abbott; Charles	Santa Monica	CA		
Boyd; Nik	Los Angeles	CA		
Cohen; Albert	Los Angeles	CA		
Cook; James	Manhattan Beach	CA		
Grandcolas; Michael	Santa Monica	CA		
Lan; Sikhun	Los Angeles	CA		
Lindsley; Bonnie	Santa Clarita	CA		
Markarian; Grigor	Agoura	CA		
Moss; Leslie	Los Angeles	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Citicorp Development Center, Inc.	Los Angeles	CA			02

APPL-NO: 08/ 908413 [PALM]

DATE FILED: August 7, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application claims priority on Provisional Application Ser. No. 60/029,209, filed Oct. 31, 1996, now abandoned. Reference is made to a related patent application entitled "Method and System for Automatically Harmonizing Access to Software Application Program via Different Access Devices," Ser. No. 08/741,121, filed on Oct. 30, 1996, now U.S. Pat. No. 5,867,153.

INT-CL: [06] G06 F 17/60

US-CL-ISSUED: 705/35

US-CL-CURRENT: 705/35

FIELD-OF-SEARCH: 705/35, 705/39, 705/42, 705/43

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4905186</u>	February 1990	Fukui	705/39
<input type="checkbox"/> <u>5025373</u>	June 1991	Keyser, Jr. et al.	380/24
<input type="checkbox"/> <u>5050207</u>	September 1991	Hitchcock	379/93.19
<input type="checkbox"/> <u>5220501</u>	June 1993	Lawlor et al.	380/24
<input type="checkbox"/> <u>5453601</u>	September 1995	Rosen	380/24
<input type="checkbox"/> <u>5485370</u>	January 1996	Moss et al.	705/39
<input type="checkbox"/> <u>5682482</u>	October 1997	Burt et al.	705/42
<input type="checkbox"/> <u>5699522</u>	December 1997	Shimizu et al.	395/200.33
<input type="checkbox"/> <u>5710889</u>	January 1998	Clark et al.	345/344
<input type="checkbox"/> <u>5787403</u>	July 1998	Randle	705/43
<input type="checkbox"/> <u>5794218</u>	August 1998	Jennings et al.	705/35
<input type="checkbox"/> <u>5794234</u>	August 1998	Church et al.	705/35

ART-UNIT: 275

PRIMARY-EXAMINER: Stamber, Eric W.

ATTY-AGENT-FIRM: Marcou; George T. Kilpatrick Stockton LLP

ABSTRACT:

A delivery system and method allow a financial institution to provide financial services to a plurality of remote devices, such as personal computers, personal data assistants, and screen phones. In addition to providing services to these remote devices, the system and method provide services to automatic teller machines (ATMs), external service providers, and internally within the financial institution to staff terminals and to the individual branches of the financial institution. The delivery of financial services is not limited to any particular network but rather may be provided through dial-in access, Internet access, on-line service provider access, or other types of delivery networks. The system is comprised of a set of reusable global components which are modular and are organized into services sets. By separating the components of the system into independent components, the system and method can be developed and tested on a component level rather than the entire system level, thereby substantially reducing the development and maintenance cycle time. The system and method operate in sessions and, for instance, employ a dialog component for gathering information from a customer, a rule broker component for providing answers to the various legal and regulatory rules in a particular country, a language man component for selecting appropriate language, a transaction executor component for performing transactions, and a presentation manager component for formatting outputs to the customer. The system and method provide state-of-the art interfaces with interface components and support legacy applications with legacy app bridge components.

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L1: Entry 10 of 10

File: USPT

Feb 11, 1997

US-PAT-NO: 5602743

DOCUMENT-IDENTIFIER: US 5602743 A

TITLE: Method for data input into a postage meter machine, arrangement for franking postal matter and for producing a franking design respectively allocated to a cost center

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freytag, Claus	Berlin			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Francotyp-Postalia AG & Co.	Birkenwerder			DE	03

APPL-NO: 08/ 444266 [PALM]

DATE FILED: May 18, 1995

PARENT-CASE:

This application is a continuation of application Ser. No. 08/181,408, filed Jan. 13, 1994, which issued as U.S. Pat. No. 5,490,077.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 02 097.6	January 20, 1993
DE	43 12 894.7	April 16, 1993

INT-CL: [06] G07 B 17/00

US-CL-ISSUED: 364/416.18; 235/375

US-CL-CURRENT: 705/408; 235/375

FIELD-OF-SEARCH: 235/375, 235/380, 235/381, 364/464.02

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/>	<u>3635297</u>	January 1972	Salava	177/177
<input type="checkbox"/>	<u>4122532</u>	October 1978	Dlugos et al.	364/900
<input type="checkbox"/>	<u>4138735</u>	February 1979	Allocca et al.	364/900
<input type="checkbox"/>	<u>4506330</u>	March 1985	Dlugos	364/466
<input type="checkbox"/>	<u>4802218</u>	January 1989	Wright et al.	380/380
<input type="checkbox"/>	<u>4812994</u>	March 1989	Taylor et al.	364/464.02
<input type="checkbox"/>	<u>4831554</u>	May 1989	Storace et al.	364/464.02 X
<input type="checkbox"/>	<u>4868757</u>	September 1989	Gil	364/464.02
<input type="checkbox"/>	<u>4914606</u>	April 1990	Vermesse	364/464.02 X
<input type="checkbox"/>	<u>4933849</u>	June 1990	Connell et al.	364/400
<input type="checkbox"/>	<u>4960982</u>	October 1990	Takahira	235/382
<input type="checkbox"/>	<u>4980542</u>	December 1990	Jackson et al.	235/375
<input type="checkbox"/>	<u>5111030</u>	May 1992	Brasington et al.	235/375
<input type="checkbox"/>	<u>5233657</u>	August 1993	Gunther	380/23
<input type="checkbox"/>	<u>5352875</u>	October 1994	Enomoto	235/380
<input type="checkbox"/>	<u>5367150</u>	November 1994	Kitta et al.	235/380
<input type="checkbox"/>	<u>5388248</u>	February 1995	Robinson et al.	235/380 X
<input type="checkbox"/>	<u>5397883</u>	March 1995	Miyashita	235/380 X
<input type="checkbox"/>	<u>5442704</u>	August 1995	Holtey	235/380 X
<input type="checkbox"/>	<u>5461222</u>	October 1995	Haneda	235/375 X

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0230658	August 1987	EP	
0373971	January 1991	EP	
0405357	January 1991	EP	
3206539	September 1983	DE	
3809795	January 1992	DE	
4033164	April 1992	DE	

ART-UNIT: 244

PRIMARY-EXAMINER: Cosimano; Edward R.

ATTY-AGENT-FIRM: Hill, Steadman & Simpson

ABSTRACT:

A method for data entry into a postage meter machine before the initiation of a selected printer function, an arrangement for franking postal matter and for producing a franking image respectively allocated to a cost center include automatic modification of the most recent status of stored data contents in a

postage meter machine for the setting thereof within a time window following the switch-on on the basis of a first data carrier and/or automatic entry of an accounting number for the cost center of the user and/or of a printer function or the number of a printer function into a memory area of a memory of the postage meter machine on the basis of a further data carrier. The data carriers may be chip cards. Data for the chip card number, for the cost center number and for the design number are read out in the unprotected memory area or, after automatic password rendering, from the protected memory area of the chip card by the postage meter machine and are used in the postage meter machine for setting the cost center and the associated advertising design.

6 Claims, 15 Drawing figures

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L8: Entry 1 of 2

File: USPT

Apr 18, 2000

DOCUMENT-IDENTIFIER: US 6052591 A

**** See image for Certificate of Correction ****

TITLE: Broadcasting messages to mobile stations within a geographic area

Abstract Text (1):

A dialable directory number is assigned to a particular location area or cell area. A telecommunications user wanting to transmit user defined messages, such as a text message, to mobile stations within that location area or cell area transmits a signal encapsulating the message towards the assigned directory number. The transmitted signal is then routed through the conventional telecommunications network and delivered to the MSC providing mobile service to that particular location area or cell area. If the specified directory number is associated with a location area within a Public Land Mobile Network (PLMN), the serving MSC queries the attached visitor location register (VLR) to identify the mobile stations currently located within the specified location area. If the specified directory number is associated with a cell area, the serving MSC communicates with a base station controller (BSC) providing mobile service to that particular cell area. Thereinafter, the received message is transmitted using short message service (SMS) messages to each of the mobile stations determined to be located within the specified geographic area.

Brief Summary Text (5):

With the introduction of the Global System for Mobile (GSM) communication and the Personal Communications System (PCS), a number of advanced subscriber features and applications are provided to mobile subscribers. One such application is the communication of unstructured data between a mobile station and a serving mobile telecommunications network. Messages like Short Message Service (SMS) messages are utilized to communicate text or unstructured data between a serving mobile switching center (MSC) and a mobile station. Using SMS messages, the serving MSC can transmit text information to the mobile station and have the mobile station store the received text information in an associated register, such as an attached Subscriber Identity Module (SIM) card. The text messages encapsulated within the received SMS messages can then be displayed to the mobile user for user interaction.

Brief Summary Text (6):

Another example of unstructured data communications comprises the Unstructured Supplementary Service Data (US:SD) message. Using USSD messages, a mobile telecommunications network is also able to transparently communicate text data with a mobile station. For example, a mobile station can receive and display text messages on an attached display unit and subsequently return a reply message back to the mobile network.

Brief Summary Text (7):

Conventionally, SMS and USSD messages can be utilized to communicate unstructured data, e.g., user defined text messages, from a mobile telecommunications network to a particular mobile station or to all mobile stations traveling within a particular mobile switching center (MSC) coverage area. As a result, in order to communicate messages to mobile stations located within a certain geographic area, the mobile telecommunications network must individually identify and specify the Mobile

Subscriber Integrated Service Digital Network (MSISDN) number associated with each of the targeted mobile stations and sequentially transmit a message to the specified mobile stations. As an alternative, the serving MSC can also blindly transmit broadcast messages to all mobile stations located within its MSC service area.

Detailed Description Text (2):

FIG. 1 is a block diagram of a telecommunications network including a Public Land Mobile Network (PLMN) 10 for providing mobile service to a mobile station 20. Whenever the mobile station 20 travels into a particular mobile switching center (MSC) coverage area, a visitor location register (VLR) 30 associated with the serving MSC 40 copies into its memory the relevant subscriber information from the home location register (HLR) 50 associated with that particular mobile subscriber. Thereinafter, whenever the mobile station 20 originates an outgoing call, the radio signal 60 requesting an outgoing call setup is received by the base station controller (BSC) 70 connected to the serving MSC 40. The received request is then forwarded to the serving MSC 40 who, in turn, processes the call setup request with the help of the subscriber information stored in the VLR 30. If the outgoing call connection is towards a wireline terminal 80, the call setup signal, such as an Initial Address Message (IAM) signal, is then transmitted from the serving MSC 40 to the connected Public Switched Telephone Network (PSTN) 90 to establish the call connection.

Detailed Description Text (10):

FIG. 6 is a block diagram illustrating the communication of a USSD message 220 between a USSD external node user 250 and a mobile station 20. USSD messages are utilized by the mobile telecommunications network to transport user defined data to a mobile station 20 or an application module within the mobile station 20. Therefore, instead of storing the received character data into an SIM card, the received data are either directly manipulated by the feature application modules within the receiving mobile station 20 to provide special subscriber feature functions or displayed on a display unit for user interaction. Therefore, two parties within a mobile telecommunications network can utilize USSD messages to communicate text messages back and forth without establishing a speech connection.

Detailed Description Text (12):

Conventionally, SMS and USSD messages are utilized to communicate user defined text messages from a telecommunications device within a telecommunications network to a particular mobile station or to all mobile stations traveling within a particular mobile switching center (MSC) coverage area. As a result, in order to communicate messages to mobile stations located within a certain geographic area, the telecommunications device generating the messages must inefficiently and inconveniently identify and specify the Mobile Subscriber Integrated Service Digital Network (MSISDN) number associated with each of the targeted mobile stations and sequentially transmit a message to the specified mobile stations. In order to avoid sequentially sending the message to each mobile station, as an alternative, the serving MSC can blindly transmit broadcast messages to all mobile stations located within its MSC service area.

Detailed Description Text (25):

FIG. 1 is a block diagram of a telecommunications network including a Public Land Mobile Network (PLMN) 10 for providing mobile service to a mobile station 20. Whenever the mobile station 20 travels into a particular mobile switching center (MSC) coverage area, a visitor location register (VLR) 30 associated with the serving MSC 40 copies into its memory the relevant subscriber information from the home location register (HLR) 50 associated with that particular mobile subscriber. Thereinafter, whenever the mobile station 20 originates an outgoing call, the radio signal 60 requesting an outgoing call setup is received by the base station controller (BSC) 70 connected to the serving MSC 40. The received request is then forwarded to the serving MSC 40 who, in turn, processes the call setup request with

the help of the subscriber information stored in the VLR 30. If the outgoing call connection is towards a wireline terminal 80, the call setup signal, such as an Initial Address Message (IAM) signal, is then transmitted from the serving MSC 40 to the connected Public Switched Telephone Network (PSTN) 90 to establish the call connection.

Detailed Description Text (33):

FIG. 6 is a block diagram illustrating the communication of a USSD message 220 between a USSD external node user 250 and a mobile station 20. USSD messages are utilized by the mobile telecommunications network to transport user defined data to a mobile station 20 or an application module within the mobile station 20. Therefore, instead of storing the received character data into an SIM card, the received data are either directly manipulated by the feature application modules within the receiving mobile station 20 to provide special subscriber feature functions or displayed on a display unit for user interaction. Therefore, two parties within a mobile telecommunications network can utilize USSD messages to communicate text messages back and forth without establishing a speech connection.

Detailed Description Text (35):

Conventionally, SMS and USSD messages are utilized to communicate user defined text messages from a telecommunications device within a telecommunications network to a particular mobile station or to all mobile stations traveling within a particular mobile switching center (MSC) coverage area. As a result, in order to communicate messages to mobile stations located within a certain geographic area., the telecommunications device generating the messages must inefficiently and inconveniently identify and specify the Mobile Subscriber Integrated Service Digital Network (MSISDN) number associated with each of the targeted mobile stations and sequentially transmit a message to the specified mobile stations. In order to avoid sequentially sending the message to each mobile station, as an alternative, the serving MSC can blindly transmit broadcast messages to all mobile stations located within its MSC service area.

Other Reference Publication (3):

F. Courau, et al., "Implementation of Broadcast and Personal Message Services in an Experimental Mobile Radio System", XP002019072, CNet, France, Jun. 30, 1997, p. 144-151.

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System, method and article of manufacture for processing a plurality of transactions from a single initiation point on a multichannel, extensible, flexible architecture

Abstract

An architecture for processing a plurality of transactions from a single point of initiation is disclosed. The initiating **computer selects a terminal identification token, and associates the token with a transaction request**, thereby ensuring the association of the transaction with a unique terminal identification despite being originated by the same terminal. The tokens are obtained from a token table, which contains a row for each token defined to the system. The table includes a column for the token, a column that identifies a system with which the token may be used, and a column that identifies a date and time field indicating when a particular token was selected for use. A null value in the date-time field indicates that the token for that row is not in use. A query operation selects a token with a null date-time value, and a set operation sets the date-time value to the then-current time to mark it in use. At the conclusion of the transaction, a set operation sets the date-time value to null, enabling the token to be reused for another non-concurrent transaction.

Results of Search in db for:

((SPEC/token AND SPEC/transaction) AND SPEC/exchangeable) AND CCL/705/26): 0 patents

Results of Search in db for:

(((((ACLM/token AND SPEC/transaction) AND SPEC/exchang?) AND CCL/705/26) AND SPEC/product) AND SPEC/mobile): 0 patents.

Results of Search in db for:

(((((ACLM/token AND SPEC/exchang?) AND CCL/705/26) AND SPEC/product) AND SPEC/mobile): 0 patents.

Results of Search in db for:

((((ACLM/token? AND SPEC/exchang?) AND CCL/705/26) AND SPEC/mobile): 0 patents.

Results of Search in db for:

((ACLM/token AND SPEC/mobile?) AND CCL/705/26): 0 patents.

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L12: Entry 1 of 1

File: USPT

Feb 11, 1997

US-PAT-NO: 5602743

DOCUMENT-IDENTIFIER: US 5602743 A

TITLE: Method for data input into a postage meter machine, arrangement for franking postal matter and for producing a franking design respectively allocated to a cost center

DATE-ISSUED: February 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freytag, Claus	Berlin			DE

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Francotyp-Postalia AG & Co.	Birkenwerder			DE	03

APPL-NO: 08/ 444266 [PALM]

DATE FILED: May 18, 1995

PARENT-CASE:

This application is a continuation of application Ser. No. 08/181,408, filed Jan. 13, 1994, which issued as U.S. Pat. No. 5,490,077.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 02 097.6	January 20, 1993
DE	43 12 894.7	April 16, 1993

INT-CL: [06] G07 B 17/00

US-CL-ISSUED: 364/416.18; 235/375

US-CL-CURRENT: 705/408; 235/375

FIELD-OF-SEARCH: 235/375, 235/380, 235/381, 364/464.02

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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US-CL

<input type="checkbox"/>	<u>3635297</u>	January 1972	Salava	177/177
<input type="checkbox"/>	<u>4122532</u>	October 1978	Dlugos et al.	364/900
<input type="checkbox"/>	<u>4138735</u>	February 1979	Allocca et al.	364/900
<input type="checkbox"/>	<u>4506330</u>	March 1985	Dlugos	364/466
<input type="checkbox"/>	<u>4802218</u>	January 1989	Wright et al.	380/380
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<input type="checkbox"/>	<u>4914606</u>	April 1990	Vermesse	364/464.02 X
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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
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0373971	January 1991	EP	
0405357	January 1991	EP	
3206539	September 1983	DE	
3809795	January 1992	DE	
4033164	April 1992	DE	

ART-UNIT: 244

PRIMARY-EXAMINER: Cosimano; Edward R.

ATTY-AGENT-FIRM: Hill, Steadman & Simpson

ABSTRACT:

A method for data entry into a postage meter machine before the initiation of a selected printer function, an arrangement for franking postal matter and for producing a franking image respectively allocated to a cost center include automatic modification of the most recent status of stored data contents in a

postage meter machine for the setting thereof within a time window following the switch-on on the basis of a first data carrier and/or automatic entry of an accounting number for the cost center of the user and/or of a printer function or the number of a printer function into a memory area of a memory of the postage meter machine on the basis of a further data carrier. The data carriers may be chip cards. Data for the chip card number, for the cost center number and for the design number are read out in the unprotected memory area or, after automatic password rendering, from the protected memory area of the chip card by the postage meter machine and are used in the postage meter machine for setting the cost center and the associated advertising design.

6 Claims, 15 Drawing figures

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L12: Entry 1 of 1

File: USPT

Feb 11, 1997

DOCUMENT-IDENTIFIER: US 5602743 A

TITLE: Method for data input into a postage meter machine, arrangement for franking postal matter and for producing a franking design respectively allocated to a cost center

Brief Summary Text (14):

W093/05482 corresponding to German OS 41 29 302 proposes a modified solution for incrementing the fee credit in the credit balance memory of postage meter machines on the basis of a chip card that carries a reloading credit that, when subsequently erased, can in turn be removed. In another version, the credit stored in the chip card is debited step-by-step. However, no further data can be fetched from the chip card. A pluggable EPROM is introduced into a permanently installed plug-in socket for the postal fees (postage fee table).

Detailed Description Text (45):

A check (not set forth in greater detail) of the postage meter machine functions and an initialization in step 121 ensues after the start (power-up) 120. A check is carried out in the following step 122 to determine whether the chip card A has been plugged in. If this has not yet ensued, a time window is begun in a step 123 and a return is then undertaken to the initialization routine 121. After the lapse of a predetermined chronological duration without a chip card A having been plugged in, a jump is made to step 129. Otherwise, a jump from step 122 to step 124 ensues, wherein the authorization is checked. In the event a chip card is recognized which is not authorized for data entry into a corresponding postage meter machine, a return back to the initialization routine 121 by the postage meter machine ensues in step 125 after a registration of the unsuccessful data entry attempt that has taken place. Given a positive check of the authorization, the predetermined data exchange ensues in step 126. A check is carried out in the following step 127 to determine whether the data input has been ended. When the data entry by the chip card A has ended, a message "card A OUTPUT" is displayed with the output unit 4 in step 128. Otherwise, if the data entry has not ended, a return back is made to step 126 in order to continue the data exchange. Following step 128--when the chip card A has been removed--the display "INPUT CARD B" ensues in step 129 until the check in the following step 130 has shown that the chip card B has been plugged in. The authorization is then checked in step 131. When the chip card B is not plugged in, or given an unauthorized chip card B (and possibly following the registration in step 133), a return back is always undertaken to step 129 and the postage meter machine is not operational. Given an authorized chip card B that has been plugged in, a predetermined data exchange ensues in step 134. As long as it has been found in step 135 that the data entry has ended, a return back is undertaken to step 134. When the data input has ended, the input number of the cost allocation account, or the number of the input printing function is displayed in step 136. The transition to the system management routine (step 200) subsequently ensues. The steps 130, 131 and 134 are set forth in greater detail farther below--in the flowchart shown in FIG. 5.

Detailed Description Text (47):

It is known to store auxiliary functions and tables, particularly a postage fee

table, in a chip card (German OS 42 13 278). Such a chip card is inserted into the plug-in slot 26 (See FIG. 7) of the postage meter machine. After the unit has been switched on, the data content carried by the card a3 and a4 (for example, above) is loaded into the memory module 3 of the postage meter machine within a time window. As a reaction to the request "OUTPUT CARD A" that can read on the output unit (display) 4, ~~the chip card ICCA is removed.~~ The readable request "INPUT CARD B" now appears on the output unit 4.

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order to communicate messages to mobile stations located within a certain geographic area, the mobile telecommunications network must individually identify and specify the Mobile Subscriber Integrated Service Digital Network (MSISDN) number associated with each of the targeted mobile stations and sequentially transmit a message to the specified mobile stations. As an alternative, the serving MSC can also blindly transmit broadcast messages to all mobile stations located within its MSC service area.

Brief Summary Text (9):

Accordingly, there is a need to enable the mobile telecommunications network to selectively broadcast connection-less signals, such as SMS or USSD messages, to mobile stations located within a particular geographic area.”), and the transmitting of the token to the participant includes transmitting the token in a USSR text message to a mobile communications device of the participant.

Claim 38: see (Freitag, US Pat. 5,602,743 “Detailed Description Text (123):

With the fifth command, READ TOKEN, the chip card is requested to output data from unprotected area. The first and second layers of the data set D9 that is a total of 13 bytes long are constructed analogously to the fourth command, whereby the eighth through eleventh bytes contain the actual instruction for READ TOKEN and two check bytes again reside at the end.”). about “removable chipcard” US Pat. 6,295,518, “Detailed Description Text (159):

In alternative embodiments, secondary memory 1608 can include other similar means for allowing computer programs or other instructions to be loaded into computer system 1601. Such means can include, for example, a removable storage unit 1622 and an interface 1620. Examples of such can include a program cartridge and cartridge interface (such as that found in video game devices), a removable memory chip (such as an EPROM, or PROM) and associated socket, and other removable storage units 1622 and interfaces 1620 which allow software and data to be transferred from the removable storage unit 1622 to computer system 1601.”.

Or see (Freitag, US Pat. 5,602,743 “Detailed Description Text (47):

It is known to store auxiliary functions and tables, particularly a postage fee table, in a chip card (German OS 42 13 278). Such a chip card is inserted into the plug-in slot 26 (See FIG. 7) of the postage meter machine. After the unit has been switched on, the data content carried by the card a3 and a4 (for example, above) is loaded into the memory module 3 of the postage meter machine within a time window. As a reaction to the request "OUTPUT CARD A" that can read on the output unit (display) 4, the chip card ICCAi is removed. The readable request "INPUT CARD B" now appears on the output unit 4.”.

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